

Rio Puerco Mine

- 1. Location/Land Status: The Rio Puerco Mine is located on BLM land within Section 18, T12N, R3W on USGS La Gotera quadrangle (35.271444N, 107.198028W). Physical access to the mine is gained by taking Canoncito School Road north from US I-40 approximately eight miles, bear right at the school, continue north on Canoncito School Road seventeen miles bearing westward throughout, turn right (north) onto Laguna Indian Service Road, travel two miles NE past a stock tank and on to the mesa to reach the site.
- 2. Human Activity: Fresh tire tracks indicate recent human access to the site.
- 3. Radiological Survey: Radiological survey results were as follows: ground surface maximum of 600 μ R/hour and minimum of 14 μ R/hour. Four-foot elevation maximum was 420 μ R/hour and minimum was 12 μ R/hour. Background radiation level is approximately 14 μ R/hour.
- 4. Mine Disturbance: The Rio Puerco Mine is without question the most extensive site surveyed during the course of this investigation, covering an area of approximately 12 acres. The mine consists of a vertical shaft of unknown depth, adjoined by a 15,000 square foot steel structure containing lifts for the head frame (the head frame is no longer present), offices, showers, service bays, and equipment storage areas. Immediately east of the large building there is a second building, approximately 2,400 square feet, containing a 100+kW generator. North of the generator building there is an area which formerly contained electrical infrastructure; this impound contains three electric transformers. Oil from the transformers has leaked or been dumped onto the concrete pad and surrounding soils (possible PCB contamination). To the west of the main building there is a 1,200 square-foot Quonset hut equipment service building, a 25,000-gallon water tank, and three small utility sheds. Fire hydrants are present onsite, indicating the presence of a water distribution system likely fed by a nearby well (see Hydrogeology section below). Approximately 100 ft. east of the main building there are three petroleum storage tanks of various volumes: one 9,000 gallon and two 6,000 gallon. To the south southeast of the main building is a very large, enclosed, propane tank of unknown volume. 1,000 feet SSW of the main building there are three ponds (total dimensions 280 x 380 feet, approximately 750,000 gallon capacity) and a small (600 square-foot) chemical mixing shed. The site is open to foot and vehicle traffic as there is no longer a complete fence around the property.
- **5. Plant Community:** The surrounding area is moderately grazed grassland with sparse clusters of pinon-juniper forest and ponderosa pine. Site vegetation is composed of 40% grass, 10% forbs, 5% shrubs, 5% trees, and 40% bare ground.
- **6. Soils:** Soils at the site are Zia-Skyvillage Rock outcrop complex, with 5 to 40 percent slopes, 0 to 60 inches sandy loam.
- **7. Wildlife:** When approaching the mine, a small herd of elk numbering approximately one dozen animals was observed. The ridge upon which the mine is located is covered with



various other animal sign including fox scat and tracks, coyote scat and tracks, rabbit tracks and remains, and several bird remains (raptor kills).

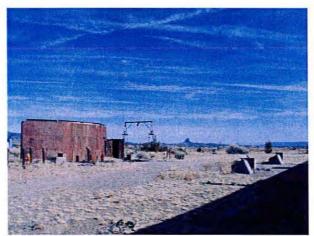
8. Land Use: Land use is light to moderate grazing.

Off-Site Impacts: No off-site impacts were noted.

10. Topographic Features: The site is flat-lying, with no notable erosional features.

11. Hydrogeology: Based on a review of the NMOSE iWaters database, there are two well records within a one mile search radius. One of these wells, located approximately one-half of a mile to the west of the site, does not have a recorded depth to water. The other well, located on the western margin of the site, has a recorded depth to water of 200

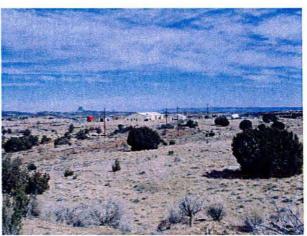
The nearest surface water drainage feature is approximately one-tenth of a mile to the northwest of the site.



Headframe area



Storage containers



Site view



Pump station

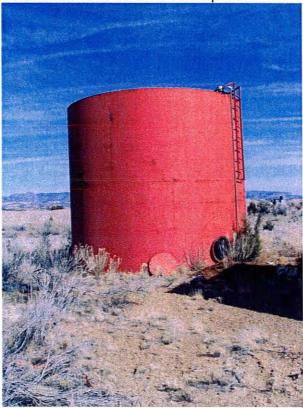




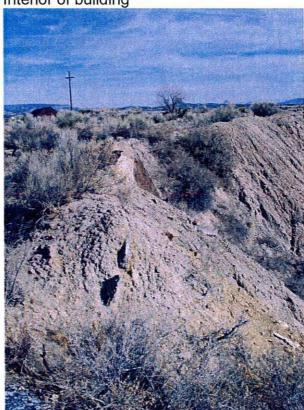
View south into eastern-most pond



Interior of building



Water tank



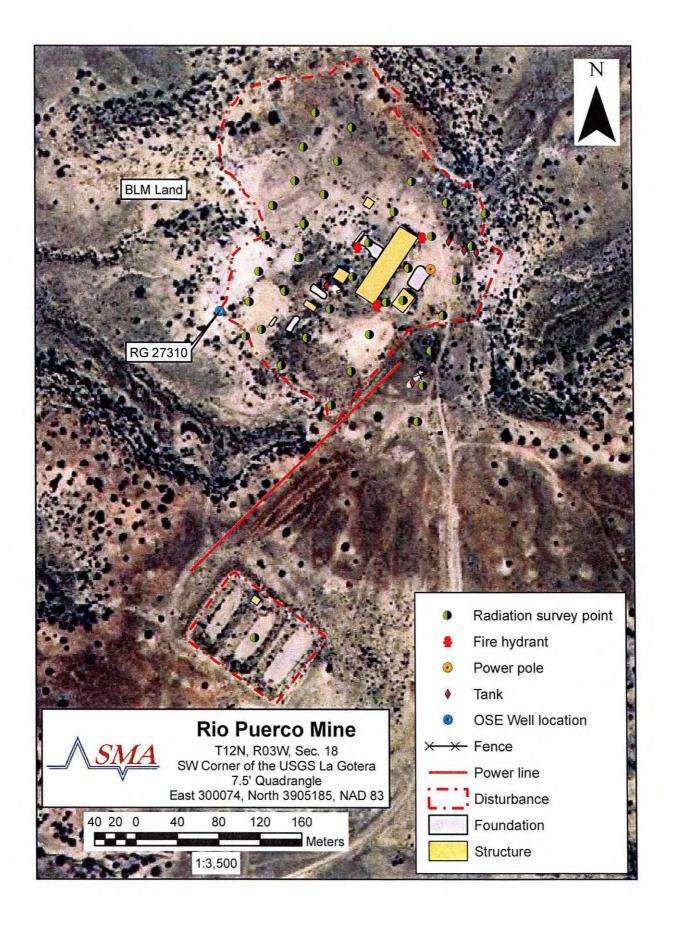
Rock piles







Transformer oil spill, recent tire tracks



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AUM Field Survey Data Sheet Site Rio Puesco

sunny, wi	na ca	lm-Breezy, temp). Wild - Cool.	
Disturbances	GPS#	Description	Dim/Area/Volume	Photo #'s
Shafts				
Adits				
Pits				
Waste Rock Dumps				Λ.
Tailings				
Trenches				
Roads				
Erosional Features				
Structures / Equipment	GPS#	Description	Dimensions	Photo #
Buildings		hoverors	,	
Headframes		1		

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AUM Field Survey Data Sheet

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Site		
Cito		

Equipment				
Soils	GPS#	Description	Extent	Photo #
Vegetation	GPS#	Description	Extent	Photo #
SEE ATTACHED				
Wildlife Rabbits, rodents. ELK offsik	GPS#	Description Observed Jack rabbits (2x) Rodent feces inside but Observed appx 10 head a to site-mostly cow, one is 3 miles to sw of site.	feces evident. Idings. Belk on way with calf. about	Photo #
Human Activity (non-mining, w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
No Housing nearby Propane tonk.		very large tank on site		
Land Use (grazing, agricultural, roads, etc., w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
Grazino DHV		Grative light onsite- Heavier offsite ESP. to North Noticed Pickup! ATV track on site.		
Nearby Residences / Wells (w/in 0.5 mi of site)	GPS#	Description	Distance to Site	Photo #
Windwill & Tank		To worth appx 1/2 mile Corrals ! Tanks to SW appx I mile		
Topographic Features	GPS#	Description		Photo #

AUM Field Survey Data Sheet Site AUM-Rio Pulzo 2008-3-20

	cal Survey		
BPS#	Description	Reading Surface	Reading 4 feet
USTRB Ø	Area around buildings and waste piles	-	-
round P	Power distribution yard. Several transformers w/ spilled sil:	J	_
u	, V	-	_
struc f	House air and power glueration 4 cept CAT compressor & 16 cept.	-	-
ll	generator (lamistive scale)	17	17
suit of	File hydrant	-	_
STRUC-1	Main building; consists of offices, showers headframe lifts, etc.		
STRUC-	Quantity list		
Stenc-	t headfrans		
ARC-1	File hydraut		
STRUC-	5 Fung house		
TANKO			
Struct	unknown "4" plate steel stricture ventilated of two locked dears.		
FOUND-,	i unknown		
Stane-	7 Multi-celled tank and pump structure.		

AUM Field Survey Data Sheet

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Site ANM-Rio Rucco 2008 - 3 - 20

Radiolog	ical Survey		
GPS#	Description	Reading Surface	Reading 4 feet
GØ	Rad survey start SW corner	lle	19
G1	Rad survey start SW corner Rad survey could.	24	24
G2	11	100	100
63	i(600	360
64	11	600	360
G5	u	leoo	420
64	i (150	140
67	ħ	80	100
G8	<i>i</i> ı	130	120
69	1Į	120	120
G10	li	1440	360
G11	ll	200	180
G12	(1	120	80
G13	11	122	18
614	N	1 20	Zo

AUM Field Survey Data Sheet Site AUM - Rio Rucco 2008 - 3 - 20

GPS#	Description		Reading Surface	Reading 4 feet
G15	Rad survey could		14	14
G-16	u		17	15
G-17	10		26	23
G18	, A		32	30
G19	ii.		32	26
620	IC		42	40
6-21	H	\checkmark	90	80
G22	I	\checkmark	46	42
623	li		21	16
624	11		25	20
625	h h		19	19
G26	II		16	15
627	- li		Ile	15
628	5 N	V	14	13

AUM Field Survey Data Sheet

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Site AUM - Rio Puerco 2008 - 3-20

Radiologi	cal Survey		
GPS#	Description	Reading Surface	Reading 4 feet
F29	fad. servey cout'd	32	30
530	n.	40	3 Ce
G31	lc .	25	21
G32	11	19	16
633	11	17	15
G34	lį	14	12
G-316	<u> </u>	17	15
G85			
Acc.			
TANK	power line between zenot. of pouds		
ARC Q	power line between genet. of pouds		
DISTUR	V . C . J	/ 130	130
STRuc	8 Ahed adjacent ponds		
Ptt Ø	teach		